

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04B7/06 H04B7/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched :

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PAN Z G ET AL: "MIMO antenna system for multi-user multi-stream orthogonal space division multiplexing" ICC 2003. 2003 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS. ANCHORAGE, AK, MAY 11 - 15, 2003, IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, NEW YORK, NY : IEEE, US, 'Online! vol. VOL. 1 OF 5, 11 May 2003 (2003-05-11), pages 3220-3224, XP010643041 ISBN: 0-7803-7802-4 Retrieved from the Internet: URL:http://ieeexplore.ieee.org&gt; 'retrieved on 2005-03-10! the whole document</p> <p style="text-align: center;">----- -/--</p>	1,14,17, 19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

15 March 2005

Date of mailing of the international search report

01/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

LOPEZ DE ECHAZARRETA

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>H. TRÖGER, W. QIU, M. MEURER, C.A. JÖTTEN: "A channel oriented Joint Transmission scheme for MIMO multi-user downlinks" COST 273, 'Online! 28 May 2002 (2002-05-28), XP002321205 ESPOO, FINLAND Retrieved from the Internet: URL:http://ieeexplore.ieee.org&gt; 'retrieved on 2005-03-10! abstract 1 Introduction. 2 Multi-user MIMO Signal Transmission Model. 3 Data Transmission and Detection. figures 1,2</p> <p>-----</p>	1,14,17, 19
X,P	<p>WO 03/101009 A (SIEMENS AKTIENGESSELLSCHAFT; BAIER, PAUL, WALTER; JOETTEN, CHRISTOPH, A) 4 December 2003 (2003-12-04) abstract figure 1</p> <p>-----</p>	1,14,17, 19

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03101009	A	04-12-2003	DE 10223564 A1	11-12-2003
			AU 2003236807 A1	12-12-2003
			WO 03101009 A1	04-12-2003
			EP 1508207 A1	23-02-2005